

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
390054.401C1APPLICATION NO.
10/087,200

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

James E. Fleming and Jason Buck Somes

FILING DATE

March 1, 2002

GROUP ART UNIT

1654

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
LL	AA	4,190,328	02/26/80	Levine et al.	350	320	
LL	AB	4,242,447	12/30/80	Findl et al.	435	39	
LL	AC	4,288,539	09/08/81	McAleer et al.	435	7	
LL	AD	4,544,546	10/01/85	Wang et al.	424	7.1	
LL	AE	4,710,472	12/01/87	Saur et al.	435	287	
LL	AF	4,859,584	08/22/89	Horan et al.	435	29	
LL	AG	5,057,413	10/15/91	Terstappen et al.	435	6	
LL	AH	5,314,805	05/24/94	Haugland et al.	435	29	
LL	AI	5,436,134	07/25/95	Haugland et al.	435	34	
LL	AJ	5,437,980	08/01/95	Haugland	435	6	
LL	AK	5,534,416	07/09/96	Millard et al.	436	34	
LL	AL	5,545,535	08/13/96	Roth et al.	435	34	
LL	AM	5,563,070	10/08/96	Yamamoto et al.	436	63	
LL	AN	5,582,984	12/10/96	Bieniarz et al.	435	6	
LL	AO	5,658,751	08/19/97	Yue et al.	435	34	
LL	AP	5,695,946	12/09/97	Benjamin et al.	435	7.32	
LL	AQ	5,734,058	03/31/98	Lee	546	176	
LL	AR	5,798,115	08/25/98	Santerre et al.	424	423	
LL	AS	5,804,448	09/08/98	Wang et al.	436	63	
LL	AT	5,888,736	03/30/99	Lacroix et al.	435	6	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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					YES	NO
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LL	BA	5,939,282	08/17/99	Harman et al.	435	29	
LL	BB	5,968,762	10/19/99	Jadamec et al.	435	18	
LL	BC	5,994,067	11/30/99	Wood et al.	435	6	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
LL	BD	DE 19832007 A1	01/27/00	Germany		X
LL	BE	GB 1503828	03/15/78	England	X	
LL	BF	WO 97/17463	05/15/97	WIPO	X	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BG	English Abstract of DE 19832007 A1, esp@cenet, January 27, 2000.
LL	BH	Ahn et al., "PicoGreen quantitation of DNA: effective evaluation of samples pre- or post-PCR," <i>Nucleic Acids Research</i> 24(13):2623-2625, 1996.
LL	BI	Blaheta et al., "Development of an ultrasensitive in vitro assay to monitor growth of primary cell cultures with reduced mitotic activity," <i>Journal of Immunological Methods</i> 211:159-169, 1998.
LL	BJ	Bolger et al., "Fluorescent Dye Assay for Detection of DNA in Recombinant Protein Products," <i>BioTechniques</i> 23(3):532-536, 1997.
LL	BK	Catt et al., "Hoechst staining and exposure to UV laser during flow cytometric sorting does not affect the frequency of detected endogenous DNA nicks in abnormal and normal human spermatozoa," <i>Molecular Human Reproduction</i> 821-825, 1997.
LL	BL	Chadwick et al., "Heterozygote and Mutation Detection by Direct Automated Fluorescent DNA Sequencing Using a Mutant Taq DNA Polymerase," <i>BioTechniques</i> 20(4):676-683, April 1996.
LL	BM	Emaus et al., "Rhodamine 123 as a probe of transmembrane potential in isolated rat-liver mitochondria: spectral and metabolic properties," <i>Biochimica et Biophysica Acta</i> 850:436-448, 1986.
LL	BN	Enger, Ø., "Use of the Fluorescent Dye PicoGreen™ for Quantification of PCR Products after Agarose Gel Electrophoresis," <i>BioTechniques</i> 21(3):372-374, September 1996.
LL	BO	Ferguson and Denny, "Microbial mutagenic effects of the DNA minor groove binder pibenzimol (Hoechst 33258) and a series of mustard analogues," <i>Mutation Research</i> 329(1):19-27, 1995.

EXAMINER <i>Louise Lee</i>	DATE CONSIDERED 12/11/03
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Sheet 3 of 5

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CA						

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
CB			YES NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

LL	CC	Ferrari et al., "Analytical Methods for the Characterization of Cationic Lipid-Nucleic Acid Complexes," <i>Human Gene Therapy</i> 9:341-351, February 10, 1998.
LL	CD	Griffith et al., "An evaluation of luminometry as a technique in food microbiology and a comparison of six commercially available luminometers," <i>Food Science and Technology Today</i> 8(4):209-216, 1994.
LL	CE	Hall et al., "An Approach to High-throughput Genotyping," <i>Genome Research</i> 6:781-790, 1996.
LL	CF	Haugland, R.P., <i>Handbook of Fluorescent Probes and Research Chemicals</i> , Spence, M. (ed.), Molecular Probes, Eugene, OR, 1996, "PicoGreen dsDNA Quantitation Reagent," pg. 162.
LL	CG	Holst et al., "Allosteric modulation of AMPA-type glutamate receptors increases activity of the promoter for the neural cell adhesion molecule, N-CAM," <i>Proc. Natl. Acad. Sci. USA</i> 95:2597-2602, March 1998.
LL	CH	Hopwood et al., "Rapid Quantification of DNA Samples Extracted from Buccal Scrapes Prior to DNA Profiling," <i>BioTechniques</i> 23:18-20, July 1997.
LL	CI	Latt and Wohlleb, "Optical Studies of the Interaction of 33258 Hoechst with DNA, Chromatin, and Metaphase Chromosomes," <i>Chromosoma</i> 52(4):297-316, 1975.
LL	CJ	Mansfield et al., "Nucleic acid detection using non-radioactive labeling methods," <i>Molecular and Cellular Probes</i> 9:145-156, 1995.
LL	CK	Marie et al., "Application of the Novel Nucleic Acid Dyes YOYO-1, YO-PRO-1, and PicoGreen for Flow Cytometric Analysis of Marine Prokaryotes," <i>Applied and Environmental Microbiology</i> 62(5):1649-1655, May 1996.
LL	CL	Matsuzaki et al., "Nuclear Staining for Laser Confocal Microscopy," <i>Acta Histochem. Cytochem.</i> 30(3):309-314, 1997.
LL	CM	Moran et al., "Nonelectrophoretic Genotyping Using Allele-Specific PCR and a dsDNA-Specific Dye," <i>BioTechniques</i> 24:206-212, February 1998.

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				YES	NO
DB					

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CC	DC	Murakami et al., "Quantitation of Adenovirus DNA and Virus Particles with the PicoGreen Fluorescent Dye," <i>Analytical Biochemistry</i> 274:283-288, 1999.
CC	DD	Nebe-von Caron et al., "Assessment of bacterial viability status by flow cytometry and single cell sorting," <i>Journal of Applied Microbiology</i> 84:988-998, 1998.
CC	DE	Niemeyer et al., "Fluorometric Polymerase Chain Reaction (PCR) Enzyme-Linked Immunosorbent Assay for Quantification of Immuno-PCR Products in Microplates," <i>Analytical Biochemistry</i> 246:140-145, 1997.
CC	DF	Papadimitriou and Lelkes, "Measurement of cell numbers in microtiter culture plates using the fluorescent dye Hoechst 33258," <i>Journal of Immunological Methods</i> 162:41-45, 1993.
CC	DG	Parpais et al., "Effect of phosphorus starvation on the cell cycle of the photosynthetic prokaryote <i>Prochlorococcus</i> spp.," <i>Marine Ecology Progress Series</i> 132:265-274, February 29, 1996.
CC	DH	Pinder et al., <i>New Techniques in Food and Beverage Microbiology</i> , Kroll et al. (eds.), Blackwell Scientific Publications, 1993, chapter 6, "Detection and Enumeration of Viable Bacteria by Flow Cytometry," pp. 67-86.
CC	DI	Rago et al., "DNA Fluorometric Assay in 96-Well Tissue Culture Plates Using Hoechst 33258 after Cell Lysis by Freezing in Distilled Water," <i>Analytical Biochemistry</i> 191:31-34, 1990.
CC	DJ	Romppanen et al., "Optimal Use of the Fluorescent PicoGreen Dye for Quantitative Analysis of Amplified Polymerase Chain Reaction Products on Microplate," <i>Analytical Biochemistry</i> 279:111-114, March 2000.
CC	DK	Rundquist et al., "Cytofluorometric Quantitation of Acridine Orange Uptake by Cultured Cells," <i>Acta Pathologica Microbiol. Immunol. Scand. Sect. A</i> 92:303-309, 1984.
CC	DL	Seville et al., "Fluorometric Assay for DNA Polymerases and Reverse Transcriptase," <i>BioTechniques</i> 21(4):664-672, October 1996.

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Sheet 5 of 5

FORM PTO-144 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 390054.401C1	APPLICATION NO. 10/087,200
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	EA						
	EB						
	EC						

FOREIGN PATENT DOCUMENTS

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					YES	NO
	ED					
	EE					
	EF					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

LL	EG	Singer et al., "Characterization of PicoGreen Reagent and Development of a Fluorescence-Based Solution Assay for Double-Stranded DNA Quantitation," <i>Analytical Biochemistry</i> 249:228-238, 1997.
LL	EH	Singer et al., <i>Biotechnology International</i> , Connor and Fox (eds.), Universal Medical Press, Inc., 1997, "Sensitive Fluorescent Stains for Detecting Nucleic Acids in Gels and Solutions," pp. 267-277.
LL	EI	Singhal et al., "DNA-Protein Interactions and Separation of Restriction Fragments by Capillary Electrophoresis," <i>The FASEB Journal</i> 9(6):A1423, Abstract No. 965, April 24, 1995.
LL	EJ	Suzuki et al., "Fluorescence Counter-Staining of Cell Nuclear DNA for Multi-Color Laser Confocal Microscopy," <i>Acta. Histochem. Cytochem.</i> 31(4):297-301, 1998.
LL	EK	Tranvik, L.J., "Rapid fluorometric assay of bacterial density in lake water and seawater," <i>Limnol. Oceanogr.</i> 42(7):1629-1634, 1997.
LL	EL	Veldhuis et al., "Cellular DNA Content of Marine Phytoplankton Using Two New Fluorochromes: Taxonomic and Ecological Implications," <i>J. Phycol.</i> 33:527-541, 1997.
LL	EM	Yan et al., "Characteristics of Different Nucleic Acid Staining Dyes for DNA Fragment Sizing by Flow Cytometry," <i>Anal. Chem.</i> 71(24):5470-5480, December 15, 1999.
LL	EN	Zhu et al., "Cell cycle-dependent modulation of telomerase activity in tumor cells," <i>Proc. Natl. Acad. Sci. USA</i> 93:6091-6095, June 1996.
	EO	
	EP	

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